RESULTS OF OAT VARIETY TESTS

on

Agronomy Crop Experiment Fields

Summarized to Include

1934

by

Geo. H. Dungan
W. L. Burlison
C. A. Van Doren

Illinois Agricultural Experiment Station
University of Illinois
Urbana

February, 1935

RESULTS OF OAT VARIETY TESTS

1934

Oat yields in 1934 were below average, especially on the Urbana and DeKalb Fields. The low yields on the DeKalb and Alhambra Fields were mainly due to dry, hot weather, while on the Urbana Field chinch bugs damaged the crop as well as dry weather. At Alhambra the red early maturing varieties were first in yield. At Urbana and DeKalb, however, the later varieties were at the top. This has occurred in former years, but seldom have the late or medium maturing varieties exceeded Sixty Day, the standard variety, by as great a margin as in 1934.

Best Yielding Varieties

The highest yielding varieties at Alhambra, are Brunker, Columbia, Franklin, Burt (Nebr. 293), Illinois 140 and Illinois 137. Of these the first four are red oats. Brunker was developed at the Dry Land Experiment Station, Akron, Colorado which may account for its adaptation to dry conditions. Columbia is a product of the Missouri Agricultural Experiment.

At Urbana the varieties that have been grown for three years or more are Columbia, Burt (Nebr. 293), Franklin, Gopher, Illinois 140, Burt (Nebr. 517), Kanota, Albion (Iowa 103) and Brunker.

The ten leading varieties at DeKalb are Fowld Hulless, Iowar, Albion (Iowa 103), Richland (Iowa 105), Kanota, Columbia, Wayne, Gopher, Iogren and State Pride. Of these all are early varieties except Fowld Hulless, Wayne and Iogren which vary from medium early to medium late.

Hulless Oats

Hulless oats have the reputation of being very sensitive to seasonal influences. Under favorable conditions they yield well, but under adverse conditions they yield very poorly. It is believed, however, that for those desiring to grow oats primarily for poultry and swine feeding, hulless oats are a good choice.

The yield of hulless oats has been calculated on the basis of 22.4 pounds to the bushel. This figure is based on the assumption that the regular varieties carry 30 percent of hull. This allowance for hull is, perhaps, somewhat high since determinations show that the percentage of hull is more frequently under 30 than over. Then, too, some of the kernels of hulless oats retain their hull which makes this method of calculation favorable to the good showing of the hulless varieties.

Method of Calculating Yields

In obtaining the comparable average yields of the different varieties the production of Sixty Day (Kherson) was used on all the fields as the standard or check. The percentage rating of each variety was calculated using the yield of Sixty Day, grown the same years, as 100 percent. This percentage rating was multiplied by the average yield of Sixty Day for the full number of years it had been grown. The product was considered to be the comparable average yield.

ALHAMBRA FIELD: Yield of Varieties of Oats

Rank	Variety	No. of years grown	Yield (Bu. per A) 1932	1933	1934	Comparable ave. yield (Bu. per A)
1	Brunker	4	66.3	24.3	38.8	44.6
2	Columbia	4	69.9	15.9	34.0	42.1
3	Franklin	2	....	10.4	29.6	41.8
4	Burt (Nebraska 293)	5	68.1	16.1	36.2	38.7
5	Illinois Progeny 140	3	61.4	14.9	28.6	37.4
6	Illinois Progeny 137	3	61.1	13.0	30.0	37.1
7	Iowar	8	....	....	....	35.0
8	Burt	8	....	....	....	34.6
9	Gopher	5	62.8	....	....	34.2
10	Albion (Iowa 103)	12	....	....	....	32.5
11	Minota	4	....	....	....	32.4
12	Sixty Day	16	59.1	8.2	22.4	32.0
13	Iogold	4	....	....	....	31.8
14	Silvermine	13	....	....	....	31.1
15	Big Four	12	....	....	....	30.5
16	Nova	4	....	....	....	28.5
17	Kanota	7	....	....	....	26.8
18	Fowld Hulless	4	54.4*	4.3*	12.5*	25.0*

*Yield of hulless oats was figured at 22.4 lbs. to the bu.

URBANA FIELD: Yields of Varieties of Oats

Rank	Variety	No. of years grown	Yield (Bu. per A) 1932	1933	1934	Comparable ave. yield (Bu. per A)
1	Patterson	1	....	....	34.4	100.54
2	Keystone	1	....	....	34.3	100.25
3	Columbia	4	80.2 (2)	63.0 (1)	29.0	68.51
4	Golden Silvermine	2	....	46.5	36.1	68.38
5	Iowa D 67	1	....	....	....	66.44
6	Burt (Nebraska 293)	5	79.6 (4)	60.8 (3)	28.3	64.10
7	Franklin	3	80.0 (3)	57.7 (4)	26.3	63.95
8	Gopher	10	81.5 (1)	54.8 (6)	31.0	63.24
9	Iowa D 4	1	....	....	....	63.18
10	Illinois Progeny 140	4	78.6 (5)	50.6 (7)	27.0 (8)	62.45
11	Burt (Nebraska 517)	3	76.5	55.7 (5)	26.4	61.85
12	Kanota	9	....	....	....	61.66
13	Albion	15	....	....	....	61.60
14	Brunker	5	70.8	61.1 (2)	17.5	60.50
15	Nebraska 21	6	73.9	53.3	....	60.00
16	Minota	7	....	....	....	59.70
17	Richland	16	....	....	....	59.48
18	State Pride	10	....	....	....	59.46
19	Iogold	5	....	....	....	59.39
20	Burt	11	....	....	....	59.35
21	Iowar	10	....	....	....	59.19
22	Wayne	5	71.4	46.6	34.3	58.73
23	Carmellion	8				58.52

24	Iogren	8	....	....	....	58.28
25	Big Four	16	....	....	....	58.16
26	Markton	5	70.0	....	....	57.99
27	Sixty Day	29	78.5 (6)	50.1	19.8	57.87
28	Swedish Select	14	....	....	....	57.80
29	Texas Red	14	....	....	....	57.30
30	Kherson	15	....	....	....	57.27
31	Sixty Day 13-304	7	....	....	....	57.24
32	Fowld Hulless	7	75.9*	49.5*	15.7*	56.94*
33	Illinois Progeny 105	2	....	47.1	21.1	56.46
34	Great American	13	....	....	....	56.31
35	Miami	6	....	....	....	56.20
36	Silvermine 6-403	5	....	....	....	56.03
37	Wis. Wonder (Pedigree #1)	10	....	....	....	56.00
38	Victory	9	....	....	....	55.82
39	Illinois Hulless	10	64.0*	35.4*	....	55.80*
40	Anthony	5	65.6	....	....	55.78
41	Bryant Silver Plume	10	....	....	....	55.75
42	Illinois Progeny 137	4	71.5	49.2	19.1	55.60
43	Nova	8	....	....	....	55.41
44	Silvermine	22	....	....	....	55.30
45	White Bonanza	19	....	....	....	55.05
46	Scottish Chief	6	....	....	....	54.65
47	Irish Victor	20	....	....	....	54.61
48	American Banner	22	....	....	....	53.67

(Cont'd on next page)

(continued)

Rank	Variety	No. of years grown	Yield (Bu. per A) 1932	1933	1934	Comparable ave. yield (Bu. per A)
49	Iowa D 77	1	....	....	....	53.64
50	Minnesota 6	19	....	....	....	53.63
51	Schoenen	16	....	....	....	53.23
52	Siberian	22	....	....	....	53.11
53	Silver	6	....	....	....	52.51
54	Garton 5	7	....	....	....	52.28
55	Sixty Day	4	....	....	....	52.21
56	Naesgaard	6	....	....	....	52.00
57	President	8	....	....	....	51.82
58	White Russian	6	....	....	....	51.68
59	Lincoln	18	....	....	....	51.31
60	Early Champion	10	....	....	....	51.13
61	Danish White	16	....	....	....	51.04
62	Garton Victor	4	....	....	....	49.37
63	Mammoth Cluster	6	....	....	....	48.21
64	Crown	1	....	....	....	46.47
65	Great Avalanche	5	55.1	....	....	45.11
66	Golden Rain	3	....	....	....	41.83
67	Black Tartarian	7	....	....	....	41.37
68	Iowa D 69	1	....	....	....	40.28
69	Victory	1	....	....	....	38.41
70	Iowa D 102	1	....	....	....	36.53

*Yield of hulless oats was figured at 22.4 pounds to the bushel.

DEKALB FIELD: Yields of Varieties of Oats

Rank	Variety	No. of years grown	Yield (Bu. per A) 1932	1933	1934	Comparable ave. yield (Bu. per A)
1	Fowld Hulless	3	86.8*	60.4*	14.4*	78.33*
2	Iowar	11	....	....	....	74.70
3	Albion (Iowa 103)	13	....	....	....	71.21
4	Richland (Iowa 105)	13	....	....	....	70.99
5	Kanota	8	....	....	....	70.60
6	Columbia	3	78.2	59.1	8.3	70.57
7	Wayne	3	76.9	50.4	18.0	70.43
8	Gopher	4	....	....	....	70.01
9	Iogren	9	....	....	....	69.41
10	State Pride	11	....	....	....	67.71
11	Minota	4	....	....	....	67.51
12	Nova	7	....	....	....	67.50
13	Iogold	4	....	....	....	67.75
14	Franklin	3	67.9	56.7	13.3	66.84
15	Silvermine	11	....	....	....	66.21
16	Anthony	3	....	....	....	65.61
17	Sixty Day	22	72.7	50.1	11.8	65.24
18	Iowa D 77	1	....	....	....	64.81
19	Burt (Nebraska 293)	5	71.2	60.4	12.2	63.82
20	Golden Silvermine	5	66.7	52.0	18.9	63.73
21	Illinois Progeny 137	3	65.6	44.1	7.8	58.26
22	Victory	2	....	....	....	56.20
23	Iowa D 69	1	....	....	....	45.77

*Yield of hulless oats was figures at 22.4 pounds to the bushel.

Printed in furtherance of the Agricultural Extension Act approved by Congress May 8, 1914. H. W. Mumford, Director, Agricultural Extension Service, University of Illinois

RESULTS OF OAT VARIETY TESTS

on

Agronomy Crop Experiment Fields

Summarized to Include

1936

by

Geo. H. Dungan
W. L. Burlison
R. B. Musgrave

Department of Agronomy, University of Illinois
College of Agriculture, Agricultural Experiment Station
Extension Service in Agriculture and Home Economics
Urbana, Illinois
October, 1936

Results of Oat Variety Tests to 1936

Oat yields in 1936 were good on the DeKalb and Urbana fields, and a failure on the Alhambra field. The loss of the crop at Alhambra may be attributed to heavy rains for which drainage was inadequate. The season was favorable for the early-maturing varieties on the DeKalb and Urbana fields, the highest-yielding one on both fields being Columbia.

Best-Yielding Varieties

The highest-yielding varieties at DeKalb, considering those that have been included in the tests for five years or longer, are Iowar, Albion, Richland, Kanota, and Gopher. Of these, the first three and the fifth are varieties that have been developed as selections from Kherson. At Urbana the leading varieties that have been grown for a minimum of five years include Columbia, Burt (Nebr. 293), Kanota, Albion, Gopher, and Illinois 140, all early varieties. The oats ranking at the top on the Alhambra field are Brunker, Columbia, Burt (Nebr. 293), Illinois 137, and Illinois 140. These are all early-maturing oats, and the first three are reddish-gray varieties.

Hull-less Oats

Hull-less oats have the reputation of being very sensitive to seasonal influences. Under favorable environment they produce well, but under adverse conditions they yield very poorly. It is believed, however, that for those desiring to grow oats for poultry and swine feeding, hull-less oats are a good choice. It should be remembered that hull-less oats tend to revert to the hulled type and for that reason, it is difficult to keep a pure lot of seed.

The yield of hull-less oats has been calculated on the basis of 22.4 pounds to the bushel. This figure is based on the assumption that the regular varieties carry 30 percent of hull. This allowance for hull is, perhaps, somewhat high since determinations show that the percentage of hull is more frequently under 30 than over. Then, too, since some of the kernels of hull-less oats retain their hull, this method of calculation is favorable to the good showing of the hull-less varieties.

Method of Calculating Yields

In obtaining the comparable average yields of the different varieties the production of Kherson (Sixty Day) was used on all the fields as the standard or check. The percentage rating of each variety was calculated using the yield of Kherson, grown the same years, as 100 percent. This percentage rating was multiplied by the average yield of Kherson for the full number of years it had been grown. The product was considered to be the comparable average yield.

DEKALB FIELD: Yields of Varieties of Oats

Rank	Variety	Number years grown	Bushel yields secured in 1934	1935	1936	Average comparable yield(bu.)
1	Iowar	11	....	....	....	69.90
2	Albion (Iowa 103)	13	....	....	....	66.62
3	Richland(Iowa 105)	13	....	....	....	66.43
4	Kanota	8	....	....	....	66.03
5	Gopher	6	....	69.2	76.1	65.40
6	Iogren	9	....	....	....	64.90
7	Columbia	5	8.3	61.4	78.6	64.41
8	Iogold	4	....	....	....	63.39
9	State Pride	11	....	....	....	63.32
10	Nova	7	....	....	....	63.17
11	Minota	4	....	....	....	63.13
12	Fowld Hull-less	5	14.4	43.4	72.1	62.49
13	Silvermine	11	....	....	....	61.93
14	Anthony	3	....	....	....	61.39
15	Wayne	5	18.0	54.8	70.8	61.09
16	Kherson (Sixty Day)	24	11.8	68.0	68.1	61.05
17	Iowa D 77	1	....	....	....	60.61
18	Golden Silvermine	7	18.9	50.0	70.9	57.83
19	Burt (Nebr. 293)	6	12.2	55.5	....	57.80
20	Franklin	5	13.3	48.4	57.5	56.14
21	Illinois 140	2	....	66.5	57.5	55.46
22	Victory	2	....	....	....	52.55
23	Illinois 137	5	7.8	50.4	61.0	51.62
24	Keystone	2	....	59.1	50.1	48.84
25	Iowa 444	1	....	....	53.5	47.96
26	Patterson	2	....	52.8	46.6	44.46
27	Iowa D 69	1	....	....	....	42.83

URBANA FIELD: Yields of Varieties of Oats

Rank	Variety	Number years grown	Bushel yields secured in 1934	1935	1936	Average comparable yield(bu.)
1	Illinois 30-2088	1	....	....	67.1	67.71
2	Iowa D 67	1	....	....	....	67.43
3	Columbia	6	29.0	68.3	70.0	66.46
4	Burt (Nebr. 293)	6	28.3	....	60.1	64.29
5	Iowa D 4	1	....	....	....	64.12
6	Kanota	9	....	....	....	62.58
7	Albion	15	....	....	....	62.51
8	Gopher	11	31.0	57.7	....	62.19
9	Illinois 140	6	27.0	73.3	60.3	61.87
10	Burt (Nebr. 517)	5	26.4	70.7	64.1	61.41
11	Brunker	7	17.5	70.5	65.4	61.07
12	Nebraska 21	6	....	....	....	60.89
13	Minota	7	....	....	....	60.59
14	Richland	16	....	....	....	60.36
15	State Pride	10	....	....	....	60.35
16	Iogold	5	....	....	....	60.28
17	Burt	11	....	....	....	60.23
18	Iowar	10	....	....	....	60.07
19	Cornellian	8	....	....	....	59.39
20	Iogren	8	....	....	....	59.14
21	Big Four	16	....	....	....	59.02
22	Markton	5	....	....	....	58.85
23	Kherson (Sixty Day)	30	19.8	74.0	58.2	58.73
24	Swedish Select	14	....	....	....	58.66
25	Texas Red	14	....	....	....	58.15
26	Sixty Day 13-304	7	....	....	....	58.09
27	Fowld Hull-less	9	15.7	63.2	64.2	57.50
28	Great American	13	....	....	....	57.15
29	Miami	7	....	....	....	57.04
30	Silvermine 6-403	5	....	....	....	56.86
31	Wis. Wonder	10	....	....	....	56.83
32	Victory	9	....	....	....	56.65
33	Illinois Hull-less	10	....	....	....	56.63
34	Anthony	5	....	....	....	56.61
35	Bryant Silver Plume	10	....	....	....	56.58
36	Nova	8	....	....	....	56.23

URBANA FIELD: Yields of Varieties of Oats (Continued)

Rank	Variety	Number years grown	Bushel yields secured in 1934	1935	1936	Average comparable yield(bu.)
37	Silvermine	22	....	....	....	56.10
38	White Bonanza	19	....	....	....	55.87
39	Scottish Chief	6	....	....	....	55.46
40	Irish Victor	20	....	....	....	55.42
41	Illinois 137	4	19.1	....	....	55.01
42	American Banner	22	....	....	....	54.47
43	Iowa D 77	1	....	....	....	54.44
44	Minnesota 6	19	....	....	....	54.43
45	Schoenen	16	....	....	....	54.03
46	Siberian	22	....	....	....	53.84
47	Wayne	7	34.3	50.7	50.6	53.68
48	Silver	6	....	....	....	53.29
49	Garton 5	7	....	....	....	53.06
50	Sixty Day (Selected)	5	....	....	....	52.96
51	Naesgaard	6	....	....	....	52.76
52	President	8	....	....	....	52.59
53	White Russian	6	....	....	....	52.45
54	Lincoln	18	....	....	....	52.08
55	Early Champion	10	....	....	....	51.89
56	Danish White	16	....	....	....	51.79
57	Illinois 105	4	21.1	57.6	50.5	51.23
58	Golden Silvermine	4	36.1	42.9	47.9	50.39
59	Garton Victor	4	....	....	....	50.10
60	Patterson	3	34.4	44.6	49.0	49.46
61	Keystone	3	34.3	50.7	42.8	49.38
62	Mammoth Cluster	6	....	....	....	48.91
63	Crown	1	....	....	....	47.16
64	Great Avalanche	5	....	....	....	45.76
65	Golden Rain	3	....	....	....	42.45
66	Black Tartarian	7	....	....	....	41.98
67	Iowa D 69	1	....	....	....	40.88
68	Victory (Riley)	1	....	....	....	38.94
69	Iowa D 102	1	....	....	....	37.07

ALHAMBRA FIELD: Yields of Varieties of Oats
(No yields were obtained in 1936 because the crop drowned out in the early spring)

Rank	Variety	Number years grown	Bushel yields secured in 1933	1934	1935	Average comparable yield(bu.)
1	Brunker	5	24.3	38.8	19.3	42.67
2	Columbia	5	15.9	34.0	18.1	40.19
3	Burt (Nebr. 293)	6	16.1	36.2	22.0	37.90
4	Ill. 137	4	13.0	30.0	19.3	36.17
5	Ill. 140	4	14.9	28.6	16.7	35.64
6	Franklin	3	10.4	29.6	13.2	35.28
7	Iowar	8	....	....	....	33.97
8	Burt	8	....	....	....	33.55
9	Gopher	5	....	....	....	33.24
10	Albion (Iowa 103)	12	....	....	....	31.53
11	Minota	4	....	....	....	31.48
12	Kherson (Sixty Day)	17	8.2	22.4	16.2	31.04
13	Iogold	4	....	....	....	30.88
14	Silvermine	13	....	....	....	29.89
15	Big Four	12	....	....	....	29.59
16	Nova	4	....	....	....	27.71
17	Kanota	7	....	....	....	26.04
18	Fowld Hull-less	5	4.3	12.5	8.6	23.34
	Average		13.4	29.0	16.7	32.78

Printed in furtherance of the Agricultural Extension Act
approved by Congress May 8, 1914. H. W. Mumford,
Director, Extension Service in Agriculture
and Home Economics, University of Illinois

AG-391

Results of Oat Variety Tests on Agronomy Crop Experiment Fields Summarized to Include 1937

by
Geo. H. Dungan
W. L. Burlison

Department of Agronomy, University of Illinois
College of Agriculture, Agricultural Experiment Station
Extension Service in Agriculture and Home Economics
Urbana, Illinois
February, 1938

RESULTS OF OAT VARIETY TESTS

Oat yields in 1937 were good in both yield and quality considering late seeding. Due to frequent rains, the plots at DeKalb and Alhambra were not seeded until May. At Urbana, however, the crop was put in during the last week of March. The season was favorable for early-maturing varieties, as usual. Altho the rust epidemic was particularly severe on wheat, it caused little injury to the oats in the variety tests.

Best Yielding Varieties

The highest yielding varieties at DeKalb, taking into account only those that have been in the tests for three years or longer, are Iowar, Fort, Columbia, Silvermine 6-403, Albion and Gopher. Of these, the first two and the last two are varieties that have been developed as selections from Kherson.

At Urbana the leading varieties that have been grown for a minimum of six years are Columbia, Fort, Gopher, Brunker, Burt (Nebr. 517) and Kanota, all early varieties.

The oats ranking at the top on the Alhambra field are Brunker, Columbia, Burt (C.I. 293), Victory, Albion (Iowa 103) and Iowar. These are all early varieties except Victory which is mid-season.

Origin and Description of Leading Varieties

Albion - Product of a single plant selected from Kherson by Iowa Station in 1906. An early oat; grain small, white; panicle open; straw short and medium fine.

Brunker - Originated as a pure line from Burt at the Akron Field Station, Akron, Colorado, of the U. S. Department of Agriculture in 1919. Brunker was first distributed to farmers in 1929. It is a very early red oat,

maturing even earlier than Fulghum. The straw is short and slender with a reddish tinge; panicles small and equilateral, with short spreading branches. Variety appears to be capable of coming thru hot, dry periods of summer better than other oats and has some resistance to smut. Its greatest fault is a weak straw which results in severe lodging under some conditions.

Burt (Nebr. 517) - Isolated from the variable Burt oat by the Nebraska Station in 1920. This variety is very early maturing; straw short; panicle spreading; grains grayish tan in color. Burt (Nebr. 517) is only moderately rust resistant.

Burt (C.I. 293) - Selection made from Red Rustproof about 1878 by a man named Burt who is reported to have lived at the time in Greene county, Alabama. A very early oat; grain reddish brown, characteristically flattened; panicle open; straw short and fine; variety as generally grown is made up of a number of strains which give it a non-uniform appearance.

Columbia - Originated as an "off type" plant selection from Fulghum by the Missouri Station in 1920. Columbia is early maturing resembling Burt, tho taller and more uniform. Grain is gray with light veins.

Fort - Developed as a pure line selection from Kherson by the Illinois Station. Straw is taller and more resistant to lodging and slightly later maturing than Kherson. Grain white; panicle spreading.

Gopher - Pure line selection from Kherson by the Minnesota Station in 1917. An oat similar to Albion (Iowa 103) tho not so early; grain white, slightly plumper than Albion; panicle open; straw short and stiff.

Iowar - A single plant selection from Kherson by the Iowa Station in 1910. Slightly later than Kherson; grain small, usually awned; straw somewhat taller and stiffer than Kherson.

Kanota - A strain of Fulghum discovered by the Kansas Station to posses superior yielding ability and unusual earliness. Produces its best yields when sown early; grain brownish red; panicle open; straw short, stiffer and somewhat coarser than that of Kherson.

Silvermine 6-403 - Selection from the variety Silvermine by the Illincis Station. Maturity is mid-season; panicle open; grain plump and white; straw tall and moderately stiff; slightly higher yielding than the original variety.

Victory - Developed at the Plant Breeding Station, Svalof, Sweden, and introduced into this country in 1908. A mid-season variety; grain white and plump; panicles open, rather dense; straw tall, fairly stiff.

Method of Calculating Yields

In obtaining the comparable average yields of the different varieties the average yield of all the varieties grown in any one year was used as the standard or check. The percentage rating of each variety was calculated using the average yield of all varieties, grown the same years, as 100 percent. This percentage rating was then multiplied by the average yield of all varieties for all years over which the tests were conducted. The resultant product was considered to be the comparable average yield.

The yield of hull-less oats has been calculated on the basis of 22.4 pounds to the bushel. This figure is based on the assumption that the regular varieties carry 30 percent of hull. This allowance for hull is, perhaps, somewhat high since determinations show that the percentage of hull is more frequently under 30 than over. Then, too, since some of the kernels of hull-less oats retain their hull, this method of calculation is favorable to the good showing of the hull-less varieties.

ALHAMBRA FIELD: Yield of Varieties of Oats

(Southwestern Illinois)

Rank	Variety	Number years grown	Bushel yields secured in - 1934	1935*	1937	Ave. comp. yield
						bu.
1	Brunker	6	38.8	19.3	20.8	41.8
2	Columbia	6	34.0	18.1	15.7	38.5
3	Burt (C.I.293)	7	36.2	22.0	7.0	35.5
4	Victory	4	...	...	...	35.3
5	Albion (Iowa 103)	12	...	...	...	34.7
6	Iowar	8	...	...	...	34.4
7	Great American	5	...	...	...	34.1
8	Burt	8	...	...	...	33.7
8	Siberian	4	...	...	...	33.7
10	Gopher	5	...	...	...	33.5
11	Big Four	12	...	...	...	32.8
11	Fort	5	28.6	16.7	16.4	32.8
13	Kherson (Sixty Day)	18	22.4	16.2	14.1	32.7
14	Iogold	4	...	...	...	32.6
15	Illinois 137	5	30.0	19.3	13.4	32.5
15	Silvermine	13	...	...	...	32.5
17	Wisconsin Wonder	4	...	...	...	30.9
17	Bryant Silver Plume	4	...	...	...	30.9
19	Kanota	7	...	...	...	30.8
20	Illinois 30-2088	1	...	...	12.5	30.6
21	Richland	4	...	...	...	30.2
22	White Bonanza	4	...	...	...	29.2
23	Minota	4	...	...	...	28.9
24	Nova	4	...	...	...	27.7
25	President	3	...	...	...	27.5
26	Texas Red	4	...	...	...	27.2
27	Franklin	4	...	...	...	25.7
28	Fowld Hull-less	5	...	...	...	20.3
29	Southern Black	1	...	...	...	19.3

* No yields were obtained in 1936 because the crop drowned out in the early spring.

DE KALB FIELD: Yields of Varieties of Oats

Rank	Variety	Number years grown	Bushel yields secured in - 1934	1935	1936	1937	Average comparable yield (bu.)
1	Illinois 30-2088	1	...	...	...	51.9	72.3
2	Iowar	11	...	...	...	...	70.2
3	Fort	3	...	66.5	57.5	57.9	69.7
4	Columbia	6	8.3	61.4	78.6	49.6	69.5
5	Silvermine 6-403	13	...	...	...	...	69.5
6	Albion (Iowa 103)	15	...	...	...	...	67.7
7	Gopher	6	...	...	76.1	40.6	67.1
8	Richland (Iowa 105)	14	...	...	...	...	66.8
9	Wayne	5	18.0	54.8	70.8	...	66.0
10	Kanota	8	...	...	...	...	65.6
11	Fowld Hull-less	6	14.4	43.4	72.1	36.4	65.0
12	Silvermine	18	...	...	...	...	64.9
13	Iogren	9	...	...	...	...	64.8
13	Great American	7	...	...	...	...	64.8
13	Iogold	4	...	...	...	...	64.8
16	Scottish Chief	5	...	...	...	...	64.6
17	Minota	4	...	...	...	...	64.5
18	Anthony	3	...	...	...	...	64.4
18	Burt (C.I. 293)	6	12.2	55.5	...	...	64.4
20	Sixty Day 13-304	5	...	...	...	...	63.8
21	Hvitling	4	...	...	...	...	63.7
22	Wisconsin Wonder	5	...	...	...	...	63.6
23	State Pride (Wis. 7)	11	...	...	...	...	63.1
23	Early Champion	4	...	...	...	...	63.1
25	Nova	7	...	...	...	...	62.7

27	Bryant Silver Plume	5	...	...	...	...	62.6
27	President	5	...	...	...	...	62.6
29	Kherson (Sixty Day)	25	11.8	68.6	72.0	55.9	62.5
30	Big Four	14	...	...	...	...	62.4
31	Irish Victor	8	...	...	...	...	61.9
32	Texas Red	5	...	...	...	...	61.7
33	White Bonanza	7	...	...	...	...	61.5
33	Mammoth Cluster	5	...	...	...	...	61.5
33	Iowa 444	2	...	...	53.5	53.1	61.5
36	Schoenen	11	...	...	...	...	61.4
36	Danish White	8	...	...	...	...	61.4
38	Minnesota 6	13	...	...	...	...	61.2
38	American Banner	10	...	...	...	...	61.2
38	Victory	4	...	...	...	...	61.2
41	Lincoln	8	...	...	...	...	60.4
42	Franklin	4	13.3	48.4	...	...	60.3
43	Cornellian	5	...	...	...	...	59.5
44	Swedish Select	17	...	...	...	...	59.3
45	Siberian	8	...	...	...	...	58.0
46	Illinois 137	6	7.8	50.4	61.0	49.9	57.8
47	Burt	5	...	...	...	...	57.5
48	Victor (Riley)	2	...	...	...	...	57.4
49	Garton Victor	3	...	...	...	...	56.3
50	Black Tartarian	5	...	...	...	...	53.9
51	Keystone	3	...	59.1	50.1	29.3	53.1
52	White Russian	4	...	...	...	...	51.6
53	Garton 5	5	...	...	...	...	51.5
54	Patterson	3	...	52.8	46.6	31.8	50.3
55	Colorado 37	1	...	...	...	...	47.0
56	Markton	1	...	...	...	...	43.2

URBANA FIELD: Yield of Varieties of Oats

Rank	Variety	Number years grown	Bushel yields secured in - 1934	1935	1936	1937	Average comparable yield (bu.)
1	Columbia	7	29.0	68.3	70.0	77.7	66.3
2	Illinois 30-2088	2	...	...	67.1	80.4	63.1
3	Fort	7	27.0	73.3	60.3	76.5	62.7
4	Gopher	12	31.0	57.7	...	78.9	61.9
5	Brunker	8	17.5	70.5	65.4	77.8	61.3
6	Burt (Nebr. 517)	6	26.4	70.7	64.1	74.0	61.2
7	Kanota	9	...	...	...	...	61.1
8	Burt (C.I. 293)	8	28.3	60.1	60.1	80.6	60.8
9	Mixture of Early Oats	3	...	...	...	...	60.7
9	Albion (Iowa 103)	15	...	...	...	...	60.7
11	Richland (Iowa 105)	16	...	...	...	...	60.1
11	Markton	5	...	...	...	...	60.1
13	Iogold	5	...	...	...	...	59.7
14	Minota	7	...	...	...	...	59.6
14	Franklin	5	26.3	53.7	61.6	...	59.6
16	Nebraska 21	6	...	...	...	...	59.4
17	State Pride (Wis. 7)	10	...	...	...	...	59.3
18	Burt	11	...	...	...	...	59.2
19	Kherson (Sixty Day)	32	19.8	74.0	58.0	78.3	59.1
19	Iowar	10	...	...	...	...	59.1
21	Big Four	16	...	...	...	...	59.0
22	Kherson 13-304	6	...	...	...	...	58.6
22	Silvermine 6-403	5	...	...	...	...	58.6
24	Cornellian	8	...	...	...	...	58.5

25	Iogren	8	...	...	...	...	58.0
26	Anthony	5	...	...	...	...	57.8
27	Great American	13	...	...	...	...	57.7
28	Texas Red	14	...	...	...	...	57.0
29	Silvermine	23	...	...	...	...	56.9
30	White Bonanza	21	...	...	...	...	56.8
31	Irish Victor	22	...	...	...	...	56.4
32	Bryant Silver Plume	10	...	...	...	...	56.3
33	Iowa 444	1	...	...	...	74.1	56.2
34	Miami	6	...	...	...	...	56.1
35	Illinois 137	7	19.1	61.2	57.4	70.8	56.0
36	Nova	8	...	...	...	...	55.8
37	Schoenen	17	...	...	...	...	55.7
37	Minnesota 6	19	...	...	...	...	55.7
39	Mixture of Late Oats	2	...	...	...	...	55.6
39	Wisconsin Wonder	10	...	...	...	...	55.6
39	Wayne	7	34.3	41.6	50.6	...	55.6
42	American Banner	24	...	...	...	...	54.9
43	Swedish Select	14	...	...	...	...	54.4
43	Victory	10	...	...	...	...	54.4
45	Siberian	24	...	...	...	...	54.0
45	Danish White	18	...	...	...	...	54.0
47	Garton 5	7	...	...	...	...	53.8
48	President	8	...	...	...	...	53.7
49	Scottish Chief	6	...	...	...	...	53.4
50	Lincoln	20	...	...	...	...	52.5

URBANA FIELD: Yields of Varieties of Oats (Continued)

Rank	Variety	Number years grown	Bushel yields secured in - 1934	1935	1936	1937	Average comparable yield (bu.)
50	Keystone	4	34.3	50.7	42.8	73.9	52.5
52	Golden Silvermine	5	36.1	42.9	47.9	75.8	52.3
53	Illinois 105	6	21.1	57.6	50.5	68.6	51.9
54	Patterson	4	34.4	44.6	49.0	71.4	51.8
54	Garton Victor	4	...	...	...	...	51.8
56	Silver	6	...	...	...	...	51.3
57	Early Champion	10	...	...	...	...	51.2
58	White Russian	6	...	...	...	...	50.7
59	Naesgaard	6	...	...	...	...	50.6
60	Kherson (Selected)	4	...	...	...	...	50.5
61	Crown	1	...	...	...	...	49.6
62	Mammoth Cluster	6	...	...	...	...	49.5
63	Golden Rain	2	...	...	...	...	47.7
64	Fowld Hull-less	9	15.7	63.2	64.2	68.0	47.6
65	Great Avalanche	5	...	...	...	...	47.5
66	Black Tartarian	9	...	...	...	...	42.8
67	Illinois Hull-less	5	...	...	...	...	38.2

Printed in furtherance of the Agricultural Extension Act, approved by Congress May 8, 1914. J. C. Blair, Director, Extension Service in Agriculture and Home Economics, University of Illinois, Urbana

AG541